

# RAHAGEER SAADMAN ISLAM

Mirpur, Dhaka, Bangladesh | rahageersaadman2000@gmail.com | +8801601930941

GitHub: <https://github.com/Rahageer90>

LinkedIn: <https://www.linkedin.com/in/rahageer-saadman-islam-7b8401350>

## SUMMARY

Results-driven Data Scientist and Software Engineer experienced in developing, deploying, and optimizing machine learning pipelines using Python, Scikit-learn, and LIME for explainable model interpretation. Skilled in data preprocessing, feature engineering, model evaluation, and integrating predictive models into scalable software systems.

Proficient in system design, MVC architecture, SDLC, SQL database management, and RESTful API integration, with proven ability to design robust backend logic and responsive frontends. Experienced in cloud deployment using Render and Netlify, delivering end-to-end, data-driven applications that combine analytical precision with engineering excellence.

## EXPERIENCE

### Data Visualization Associate (Early Internship) – Excelerate (International Internship)

Oct 2025-Nov 2025

- Collaborating with an international team to analyze, clean, and visualize datasets for business decision support.
- Performing data wrangling, exploratory data analysis (EDA), and database management using Google Sheets and PostgreSQL following the Extract Load Transform (ETL) process.
- Contributing to the development of interactive dashboards via Looker Studio and data validation processes for accurate, insight-driven reporting.
- Preparing analytical summaries and presentation materials to communicate data findings effectively to the stakeholders.

## PROJECTS

### SpaceX Falcon 9 First Stage Landing Prediction – Python, Scikit-learn, Plotly Dash, SQL

- Developed a machine learning model to predict the successful landing of SpaceX's Falcon 9 first stage with 83.33% accuracy using Logistic Regression, SVM, and Decision Tree.
- Performed SQL-based data wrangling and EDA to identify key factors such as payload mass, launch site, and orbit type influencing landing outcomes.
- Built an interactive Plotly Dash dashboard and Folium map visualization for real-time analysis of launch success trends and site performance.
- GitHub: [github.com/Rahageer90/Coursera\\_Applied\\_DataScience\\_Capstone](https://github.com/Rahageer90/Coursera_Applied_DataScience_Capstone)

### Diabetes Detector App – Python, Streamlit, XGBoost

- Developed a machine learning web app predicting diabetes risk using patient health data.
- Conducted EDA, Data Visualization, handled missing values, and performed feature engineering to improve model accuracy (~74% test accuracy).
- Built a responsive, mobile-friendly UI with interactive input forms and real-time prediction results.
- Wrapped preprocessing and model into a single pipeline for seamless deployment.
- GitHub: [github.com/Rahageer90/Diabetes\\_Prediction](https://github.com/Rahageer90/Diabetes_Prediction) | Live: [diaaapplication.streamlit.app](https://diaaapplication.streamlit.app)

### Portfolio Website - React.js, Tailwind CSS, EmailJS, Netlify

- Built and deployed a responsive portfolio website with a dark/light theme toggle and mobile navigation.
- Integrated EmailJS contact form for direct email communication without backend.
- Deployed via Netlify with CI/CD, resolving build and form integration issues for smooth user experience.

NotesApp with To-Do List – PHP, MVC, MySQL, Tailwind CSS

- Integrated Google OAuth 2.0 authentication into a cloud-deployed PHP app (Render & Aiven MySQL).
- Gained experience in secure authentication, API integration, cloud deployment, and debugging production issues.
- GitHub: <https://github.com/Rahageer90/Notesapp-in-PHP> | Live: <https://notesapp-in-php.onrender.com/>

E-commerce Bookstore App – PHP, MySQL, Tailwind CSS

- Developed complete e-commerce platform with user registration, product catalog, wishlist and shopping cart functionality
- Implemented secure user authentication and data protection following industry best practices
- Built smart cart system that preserves customer items in both cart and wishlist when transitioning from guest to registered user
- Created efficient product search and browse features with category filtering and pagination
- Managed complex database operations with proper security measures
- GitHub: [github.com/Rahageer90/ecommerce\\_app](https://github.com/Rahageer90/ecommerce_app)

THESIS

A Hybrid Learning-Based Intrusion Detection Framework for Emerging Network Attacks with LIME-Driven Interpretability

- Built an end-to-end ML pipeline with data cleaning, feature scaling, and leakage prevention.
- Achieved >97% accuracy and 0.998 ROC AUC using hybrid ensemble models with LIME explainability.

EDUCATION

<b>B.Sc. in Computer Science and Engineering</b>	Oct 2021 – Jan 2026 (Tentative)
Brac University, Dhaka, Bangladesh	

SKILLS

Languages	Python, PHP, JavaScript, HTML, CSS, SQL
Software Engineering and Frameworks	Laravel, PyQt5, Tailwind CSS, MVC Architecture, RESTful API Development, System Design, Object-Oriented Programming (OOP), Version Control (Git/GitHub)
Databases	MySQL, SQL-based Query Optimization, Database Design & Integration
ML and Data Science	Supervised & Unsupervised Learning, Data Preprocessing, Feature Engineering, Model Evaluation, Explainable AI (LIME), Scikit-learn, Pandas, NumPy, Matplotlib, Streamlit, Data Visualization
Other Skills	Responsive UI Design, Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA), RESTful APIs

CERTIFICATES

- Python App Development Masterclass - Udemy
- Machine Learning with Python - IBM
- Data Science Professional Certificate - IBM

VOLUNTEER EXPERIENCE

- Ramadan Donation Drive (2024): Organized grocery and iftar distribution for underserved communities.
- Clean Bangladesh 2.0 (2024): Participated in a public space cleaning and sustainability campaign.